

Datasheet: MCA2424

Description:	MOUSE ANTI LYN
Specificity:	LYN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	LYN01
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting	■			1/100 - 1/1000
Immunofluorescence	■			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant fragment of human Lyn (amino acids 8-238)

**External Database
Links**

UniProt:

[P07948](#)

[Related reagents](#)

Entrez Gene:

[4067](#)

LYN

[Related reagents](#)

Specificity

Mouse anti Human lyn antibody, clone LYN01 recognizes Tyrosine-protein kinase Lyn, also known as p56lyn, p53lyn, V-src-1 Yamaguchi sarcoma viral related oncogene homolog or Lck/Yes-related novel protein tyrosine kinase a 512 amino acid, ~56 kDa member of the src family of non-receptor protein tyrosine kinases (PTKs), predominantly expressed in tissues of haematopoietic origin.

The interaction between lyn and syk, is crucial for regulating the response of both mast cells and basophils, following Fc epsilon R1 receptor aggregation and activation. Once activated, the rapid tyrosine phosphorylation of ITAMs by lyn, serves as a binding site for the recruitment and activation of syk, triggering the phosphorylation of further adaptor and signaling molecules further down a complex signaling cascade. This chain of events involving receptor aggregation, activation and tyrosine phosphorylation of ITAMs, is also vital for the survival and differentiation of B cells through the interaction of lyn and syk with the B cell receptor (BCR).

Western Blotting

MCA2424 detects a band of approximately 53-56kDa in human peripheral blood monocytes.

References

1. Amoui, M. *et al.* (1997) Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors. [Eur J Immunol. 27 \(1\): 321-8.](#)
2. Dráberová, L. *et al.* (1996) Thy-1-mediated activation of rat mast cells: the role of Thy-1 membrane microdomains. [Immunology. 87 \(1\): 141-8.](#)

Further Reading

1. Kovárová, M. *et al.* (2001) Structure-function analysis of Lyn kinase association with lipid rafts and initiation of early signaling events after Fcepsilon receptor I aggregation. [Mol Cell Biol. 21 \(24\): 8318-28.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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